



DAF TNR

DW53205501

en Operating and installation instructions



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- ①  button
Switch between the daytime and night-time display illumination (short press); switch the display on/off (long press).
- ② CD slot for audio/MP3 CDs.
- ③ Display / touch screen
- ④ **MAP** button
Display the map.
- ⑤  button
Eject the CD.
- ⑥ **NAV** button
Activate navigation mode.
- ⑦ **TRAF** button
Open the "traffic information" menu.
- ⑧ **SETUP** button
Open the settings menu.
- ⑨ SD card slot.
- ⑩ Right control knob
Select a menu item or adjust a setting (rotate); open a menu or confirm a setting (press).
- ⑪  button
Return to the parent menu.
- ⑫ Buttons **1 - 6** for radio station presets
- ⑬ Left control knob
Adjust the volume (rotate); switch the unit on/off (press).
- ⑭ **MEDIA** button
Select the CD, USB, AUX or Bluetooth-audio source.
- ⑮ **BAND** button
Activate radio mode / switch between the FM1, FM2 and AM wavebands (memory banks).
- ⑯  and  button
In radio mode: Tune to stations automatically.
In CD/MP3 mode: Select tracks (short press), begin fast forward (long press).

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General information

Thank you for choosing a Bosch product. We hope you enjoy using this new piece of equipment.

Please read these operating instructions before using the equipment for the first time. We provide a manufacturer's warranty on our products bought within the European Union. In the case of devices bought outside the European Union, the warranty conditions issued by our representative responsible for the respective country will apply.

Intended use

The device has been designed for operation in a commercial vehicle with a 12 V electrical system and for installation in a 2-DIN slot.



Road safety

Road safety has absolute priority.

- ▶ Familiarize yourself with the device before setting off on your journey.
- ▶ Only operate this device if the driving situation and traffic situation allow you to do so.

You must always be able to hear police, fire service and ambulance sirens in good time from inside your vehicle.

- ▶ For this reason, listen to your sound system at an appropriate volume level during your journey.



Risk of injury

This device is a CLASS 1 laser product.

- ▶ Never look into the laser beam.
- ▶ Never try looking inside the housing or try opening the housing.
- ▶ You must only allow qualified experts to perform any servicing work.

Disposal of end-of-life appliances



Please do not dispose of your old appliance in the household refuse. To dispose of the old appliance, please use the available waste return and recycling systems.

Introduction

General information

Mode	Feature
Radio	<ul style="list-style-type: none">▶ FM - memory for 12 station presets▶ AM - memory for 6 station presets
Internal CD drive	Plays audio-CDs and MP3/WMA CDs
Connectivity with external storage media	<ul style="list-style-type: none">▶ iPod▶ MP3 player▶ USB flash drive▶ Portable CD players▶ Other mass storage via cable or Bluetooth
Navigation system	Dynamic route directions for avoiding traffic jams or other traffic problems



Notes

- ▶ The system must be used in such a way that you can drive the vehicle safely at all times. If in doubt, you should stop your vehicle and operate the system while the vehicle is stationary.
- ▶ Using the navigation system does not excuse the driver from driving and acting in a correct and attentive manner as a road user. Traffic regulations must always be complied with. If you need to operate the system (for instance, in order to enter an address), stop your vehicle in a safe place and then perform the necessary function.

- ▶ Some areas – such as one-way roads, entrances and pedestrian precincts, where access is forbidden – may not be marked on the navigation map. The device will not issue any warning notices in such areas. You must comply with the traffic regulations here.

Radio reception

Radio reception may deteriorate due to atmospheric interference, noise, distortion or reception interference caused, for instance, by:

- ▶ A change in the distance to the transmitter
- ▶ Multipath reception due to reflection or shadowing

Operating modes

Radio

- ▶ Press the **BAND** button (15) to switch on the radio.
See the "Radio" chapter for further details.

Media

- ▶ Press the **MEDIA** button (14) to activate a CD, MP3 CD, iPod, USB, BLUETOOTH AUDIO or AUX function (if available).
Details on this are available in the "Media" chapter.



Navigation

- ▶ Press the **NAV** button (6) to open the NAVIGATION menu.
Details on this are available in the "Navigation" chapter.
- ▶ Press the **MAP** button (4) to display the road map indicating your vehicle's current position.
Details on this are available in the "Navigation" chapter.



Notes

- ▶ In the main menus for Audio, only the buttons in the lower part of the menus on the touch screen can be used. Operation using the right control knob (10) is not possible.
- ▶ Before a system function is carried out, a message will often appear asking you to confirm whether the selected system

function really should be carried out. The messages may also ask you to conclude the function.
Press the  button  , if you want to suppress such a message without initiating a system function.

Operation

Controls

The system can be operated using the knobs and buttons as well as the menus displayed on the touch screen.

Furthermore, it is possible to operate the system via a steering wheel remote control, if applicable.

Touch screen

The system's screen has a touch-sensitive surface that enables you to directly select the displayed menu options. For instance, it is possible to activate an on-screen menu option by tapping the button with a finger or to change the position of a movable item on the screen by moving it with your finger.



Risk of damage to the touch screen

Do not use any pointed or hard objects, such as pens or pencils, to operate the touch screen.

Multifunction knob

To navigate through the menu options,

- ▶ turn the control knob (10) clockwise or anticlockwise.


To activate the selected menu item,

- ▶ press the control knob (10).

This activates the respective system function or causes a message or submenu with further options to be displayed.



Notes

- ▶ In the main menus for Audio, only the buttons in the lower part of the menu can be selected/activated via the touch screen.
- ▶ Before a system function is carried out, a message will often appear asking you to confirm that the selected system function really should be carried out. The message may also ask you to conclude a function. Press the  button (11), if you want to suppress such a message without initiating a system function.

Switching on the system

- ▶ Switch on the vehicle's ignition. The system switches on automatically.



Note

If it does not switch on automatically, press the control knob (13).

Automatic switch-off


If you switch on the system while the vehicle ignition is off, the system will switch off automatically after one hour.

Adjusting the volume

- ▶ Turn the control knob (13).

The current setting is displayed. When you switch on the system, the volume level that was selected last will be set.

- ▶ Press the control knob (13) to mute the unit or to return to the original volume.

If you mute the volume, the  symbol appears in the display.



Note

The mute function is deactivated automatically as soon as you switch to a different audio source.

Scrolling through a list of menu items

Using the touch screen:

- ▶ Tap the  or  button of the scroll bar.

or

- ▶ Use your finger to move the slider of the scroll bar up or down to scroll through the list.

Using the control knob (10):

- ▶ Turn the control knob (10) clockwise or anticlockwise to scroll through the list of menu items.

Adjusting settings

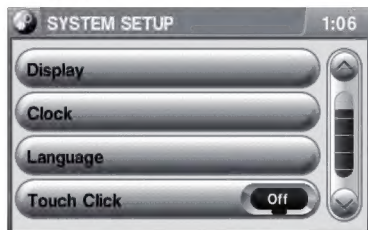
The following examples describe a method for adjusting the settings available in the various

menus by using the on-screen menu options or the control knob (10).

System settings

The system's default settings can be changed in the "SYSTEM SETUP" menu.

- ▶ Press the **SETUP** button (8) and tap on **System**.



Using the touch screen:

- ▶ Tap on a menu item to change the setting.

Using the control knob (10):

- ▶ Turn the control knob (10) clockwise or anticlockwise to select a menu item.
- ▶ Turn the control knob (10) to change the setting.

Adjusting the display

- ▶ Select the **Display** menu item.



- ▶ Select the relevant option to adjust the screen brightness.
- ▶ Select the relevant option to adjust the display to suit the lighting conditions of your surroundings.



Notes

- ▶ If you select "Automatic", the system switches automatically between day and night mode.
- ▶ The dots displayed below a setting indicate that further options are available. Tap on the the area to see the other options.



Using the control knob (10):

- ▶ Turn the control knob (10) clockwise or anticlockwise to select a menu item.
- ▶ Turn the control knob (10) to change the setting.

Scrolling direction

If you set the scrolling direction, you will only be able to scroll in this direction in order to select a menu item.

Selection using the control knob (10):

- ▶ Set the scrolling direction to  or .

Clock setup

- ▶ Press the **SETUP** button (8).
- ▶ Tap on **System**.
- ▶ Tap on **Clock**.
- ▶ Touch the relevant setup item and adjust it on the display or using the control knob (10).

Using this function you can:

- ▶ Set the time display to 24-hour format
- ▶ Set the clock automatically or manually
- ▶ Activate summer time
- ▶ Set the time zone

Selecting the language

You can select the language in which menus should be displayed from various languages. The voice output will then also occur in this language.

- ▶ Select the **Language** menu item.

A list of languages is displayed.

- ▶ Select the desired language.

You have successfully completed setting the language.

Activating/deactivating the touch click

If the **Touch Click** option is activated, a click tone sounds each time you tap the screen.

Activating/deactivating the system sounds

If the **System sounds** option is activated, the following actions of the user or system are acknowledged with a beep:

- ▶ **Radio:** When a station is stored to one of the station preset buttons.
- ▶ **CD player:** When fast forward/reverse is activated.
- ▶ **Navigation:** When activating/deactivating voice announcements in navigation mode.

Audio settings:

Using the touch screen:

- ▶ To open the AUDIO SETUP menu, press the **SETUP** button (8) and select **Audio**.



- ▶ Tap one of the on-screen buttons ([- / +, [◀ / ▶], [▲ / ▼]) to adjustment the audio settings.



Notes

- ▶ If a main audio menu is activated, you can alternatively use the control knob (10).
- ▶ The Audio **button** in the SETUP menu cannot be selected if the unit has been muted.
- ▶ **Bass:** Use this setting to adjust the low frequencies of the audio source.
- ▶ **Treble:** Use this setting to adjust the high frequencies of the audio source.
- ▶ **Balance:** Use this setting to adjust the volume distribution between the vehicle's left and right loudspeakers.
- ▶ **Fader:** Use this setting to adjust the volume distribution between the vehicle's front and rear loudspeakers.

Using the control knob ⑩:

- ▶ Turn the control knob ⑩ clockwise or anticlockwise to select a menu item.
- ▶ Press the control knob ⑩ to activate the selected menu item.

The selected menu item is highlighted.

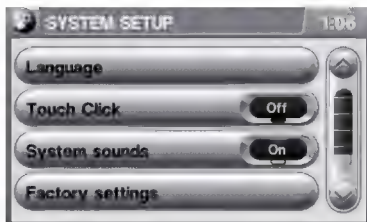
- ▶ Turn the control knob ⑩ clockwise or anticlockwise to adjust the setting.
- ▶ Turn the control knob ⑩ to confirm the setting.

You have successfully adjusted the setting.

Resetting to the factory defaults

Perform the following steps to reset all the system settings and the unit's memory to the factory defaults.

- ▶ In the SYSTEM SETUP menu, select **Factory settings**.



- ▶ Tap on **Yes** to reset the settings to their factory defaults.

Navigation setup

Details on this are available in the "Navigation" chapter, in the section entitled "SETUP button and NAVIGATION menu".

Bluetooth

Details on this are available in the "Media" chapter, in the "Bluetooth audio connection" section.

Traffic announcements setup

Details on this are available in the "Navigation" chapter, in the section entitled "NAV button and Navigation menu", in the subsection entitled "Traffic information menu".

Radio settings

Details on this are available in the "Radio" chapter, in the section entitled "Radio Data System (RDS)", in the subsection entitled "Activating/deactivating RDS regional mode".

Volume settings

The volume of the spoken announcements can be adjusted during the announcements using the control knob ⑬ or in the "Navigation Setup" menu.

The system saves the setting and applies it automatically to all future spoken announcements until the setting is changed again.

Adjusting the volume of traffic announcements (TA)

The volume of the traffic announcements can be adjusted during the announcement using the left control knob ⑬. When the announcement has ended or has been canceled, the volume is reset automatically to the original setting.

Adjusting the volume of the AUX input sources (if available)

The relative volume level of external audio sources (such as an MP3 player) can be adjusted in the "AUDIO SETUP" menu.



- To adjust the relative volume level for external audio sources, set the **AUX Level** to "Quiet", "Medium" or "Loud".

Adjusting the speed dependent volume

If the speed dependent volume control is activated, the volume is adjusted automatically to compensate for the road and wind noise while driving.

- Press the **SETUP** button (8) and tap on **Audio**.



Notes

- If a main audio menu is activated, you can alternatively use the control knob (10) to adjust a setting.
- The Audio **button** in the SETUP menu cannot be selected if the unit has been muted.
- To adjust the degree of volume adjustment, set the speed dependent volume (**Speed vol.**) to a value between 0 and 5.

Note

If you set the speed dependent volume control to 0, this will prevent the volume from being boosted at increased driving speeds. If you set the speed dependent volume control to 5, this will cause the volume to be boosted by the maximum amount at increased driving speeds.

Adjusting the volume of spoken announcements (navigation)

- Press the **SETUP** button (8) and tap on **Navigation**. If **Voice Guidance** is set to "Off", change the setting to "On".
- Adjust the **Volume** to the desired level. Once you have adjusted the volume, you will now hear the selected volume level.

Reversing camera (optional)

If a reversing camera is installed, its picture is displayed on the screen automatically for as long as the vehicle's reverse gear is selected.

**Note:**

The picture from the reversing camera is hidden automatically as soon as the vehicle's forward speed exceeds 5 km/h.

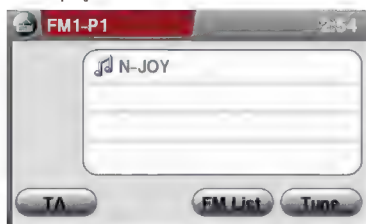
Radio

In the radio menus you can only use the touch screen to select or activate the menu items.

Switching on the radio

- ▶ Switch on the system.
- ▶ Press the **BAND** button (15).

The radio is switched on. After you switch on the radio, the station that was listened to last will be played.

**Note**

If an RDS station is played, the information about the station name and program is displayed.

Selecting the frequency band

- ▶ Press the **BAND** button (15) once or several times to set the desired frequency band.

The station that was listened to last in the selected frequency band is played.

**Notes:**

- ▶ If the frequency band is changed from FM1 to FM2 to AM or the other way around, the currently received station remains activated. If the currently

received station is stored using one of the station preset buttons, the corresponding button number is shown in the display.

FM1-P1

- ▶ There are two FM frequency band menus. You can store 12 FM stations using the station preset buttons.
- ▶ There is one AM frequency band menu. You can store six AM stations using the station preset buttons.

Radio Data System (RDS)

RDS is a system that transmits encoded digital information. RDS provides information services such as the station name, traffic information and radio text.

RDS regional mode

Sometimes RDS stations broadcast different programs on different frequencies depending on the region. The system always tunes to the best receivable frequency of the currently playing RDS station.

If RDS regional mode is activated, the system uses only frequencies of the currently received RDS station that are providing the same regional program.

If RDS regional mode is deactivated, the system uses the frequencies of the currently received RDS station that are providing different regional programs.

Activating/deactivating RDS regional mode

- ▶ Press the **SETUP** button (8) and then tap on **Radio Setup**.

The RADIO SETUP menu is displayed.



- ▶ Set **RDS Regional** to "On" or "Off".

The RDS regional mode is activated or deactivated.

Traffic announcements (TA)

The TA function is only available in FM radio mode.

If the TA function is activated and the system receives a traffic announcement from an RDS station, the currently active audio source will be interrupted.

A message appears and you will hear the announcement.

During the announcement you can adjust the volume only using the control knob (13).

You can cancel the traffic announcement by tapping on **Cancel**.

When the traffic announcement has ended or has been canceled, the volume is reset automatically to the original setting.



Notes

- ▶ If traffic announcements are enabled, the radio remains activated in the background even if the CD player or navigation system is activated.
- ▶ If you previously selected a radio station that does not broadcast traffic announcements, the system automatically tunes to a radio station that does broadcast traffic announcements. The traffic announcements are made even if the AM frequency band has been selected beforehand. This ensures that regional traffic announcements can be received at all times regardless of the selected operating mode.

Activating/deactivating priority for traffic announcements (TA)

Please read about this in the "Navigation" chapter, in the section entitled "NAV button and Navigation menu", in the subsection entitled "Traffic information menu".

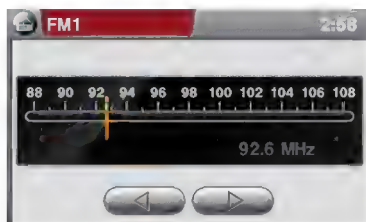
Radio station tuning

You can tune into the desired radio station manually or automatically. Details are available on this in the following sections.

Automatic seek tuning

- ▶ Tap on **Tune**.

A frequency scale is displayed.



- ▶ Briefly press the ◀◀ or ▶▶ button (16). The next available radio station is received and played automatically.



Note

If no other receivable station is found, the radio will retune to the station that it was receiving last.

Manual station tuning

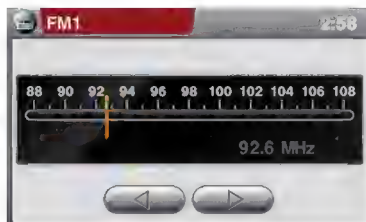
Using the control knob (10):

- ▶ In the "Radio" menu, turn the control knob (10) clockwise or anticlockwise to adjust the receiving frequency.

Using the frequency scale:

- ▶ Tap on **Tune**.

A frequency scale is displayed.



Perform one of the following actions to manually tune to the desired station.

- ▶ Tap on the frequency scale.

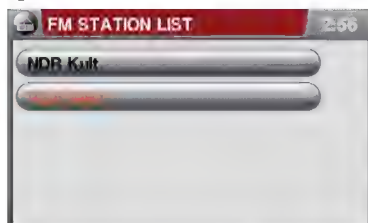
- ▶ Briefly tap ◀ or ▶.
- ▶ Press and hold the ◀ or ▶ button.
- ▶ Turn the control knob (10) clockwise or anticlockwise.

FM station list

All the receivable FM radio stations in the current reception area are listed in the FM station list.

- ▶ Tap on **List**.

The available FM stations are displayed. The FM station that is currently playing is highlighted.



Furthermore, it is possible to play one of the FM stations that is stored in memory. If a station is stored on one of the station buttons **1 - 6** (12), the name of the frequency band and the number of the station preset button is displayed in the list.

- ▶ Select the FM station that you want to play.



Note

The system's dual receiver continuously updates the FM station list in the background. This ensures that on long journeys the station list always contains the locally available FM

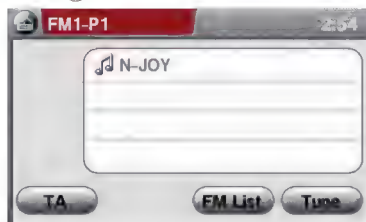
stations. The update takes time, which is why not all FM stations are necessarily immediately available if the reception area suddenly changes.

Storing a station

Six radio stations in each frequency band (AM, FM1 and FM2) can be stored using the station preset buttons.

- ▶ Select the desired frequency band.
- ▶ Tune into the desired station or select the station from the FM station list.
- ▶ Press and hold down one of the station preset buttons **1 - 6** (12) until you hear a beep.

The corresponding number of the station preset button (e.g. P1) appears next to the name of the frequency band in the top line of the menu (see the screenshot below). The station that is currently being played is stored. You can recall the station from the station presets memory by pressing the station preset button (12).



Note

If you do not hear a beep when storing the station, the system sounds may be deactivated. For details on activating the system

sounds, please refer to the "Introduction" chapter, "Adjusting settings" section.

Accessing a station

- ▶ Select the desired frequency band.
- ▶ Press one of the station preset buttons

12.

The corresponding radio station is played.

Media

CD player

General information

The system can play audio CDs and MP3/WMA CDs.



Hazard for the device

- ▶ To not use CDs with a diameter of 8 cm or deformed CDs in the CD player.
- ▶ Never stick any adhesive labels on the CDs. Such discs can get stuck in the CD drive and damage the drive. An expensive replacement for the unit would then be necessary.
- ▶ Dirt or liquids on the CDs can smear the lens of the drive in the unit and cause disruption.

Important information about audio CDs and MP3/WMA CDs

The following CD formats are supported:

- ▶ CD
- ▶ CD-R
- ▶ CD-RW

The following file formats are supported:

- ▶ ISO9660 Level 1, Level 2, (Romeo, Joliet)
- ▶ Suitable playlist extensions: ".m3u", ".pls", ".wpl".
- ▶ MP3 and WMA files recorded in a format other the ones stated above may not be played properly. Furthermore, the file

names and folder names may not be displayed correctly.

- ▶ Audio CDs with copy protection that do not comply with the CD audio standard may not play properly or at all.

**Note**

CD-Rs and CD-RWs that you have recorded yourself may not play properly or at all.

- ▶ Only the audio tracks will be played on CDs that have mixed content (i.e. a combination of audio tracks and data, such as MP3s).
- ▶ Avoid leaving fingerprints when changing CDs.
- ▶ Put CDs back into their cases immediately after you have removed them from the drive so as to protect them from damage and dirt.
- ▶ Never expose CDs to heat or direct sunlight.
- ▶ WMA files with Digital Rights Management (DRM) from online music stores cannot be played.

The following limits apply to data stored on an MP3/WMA CD:

- ▶ Maximum number of folders / playlists: 200.
- ▶ Maximum number of files / tracks: 800.
- ▶ The system supports a folder hierarchy of up to 8 folders deep.

**Note**

WMA files can only be played reliably if they were created with Windows Media Player version 9. WMA files can also be played if they were created using later versions of Windows Media Player, but playback is not guaranteed.

- ▶ Entries in playlists must be entered as relative paths.

**Notes**

- ▶ The chapter describes how to play MP3 files. WMA files are played in the same way. If you insert a CD containing WMA files, the menus relating to MP3 are also displayed.
- ▶ In the CD player menus, you can only use the touch screen to select or activate the on-screen buttons.

Starting CD playback**Hazard for the device**

Do not try inserting a CD if there is already a CD in the drive – this could damage the drive or CD.

If there is still a CD in the drive you can select CD mode by pressing the **MEDIA** button (14) (if necessary, several times).

We accept no liability for any damage to the CD drive or CD that may occur as a result of inserting a further CD.

- ▶ Insert an audio CD or MP3/WMA CD with its readable side facing down into the CD slot (2).

The CD starts playing automatically and the CD or CD-MP3 menu is displayed.



Note

If the inserted CD has already been played before in the CD drive, the CD will start playing from the track that was played last.

- ▶ If there is already a CD in the drive but the corresponding menu is not displayed, press the **MEDIA** button (14) once or several times.
- ▶ Start CD playback.

CD playback starts from the track that was played last.

Depending on the data stored on the audio CD or MP3 CD, different information about the CD and the current music track may be displayed on the screen.

When normal CD playback mode is activated (i.e. no mix mode or repeat mode is activated), the CD starts playing from the first track even after all the tracks on the CD have already been played.

Stopping CD playback

- ▶ To stop playing an inserted CD, mute the unit by pressing the left control knob (13).
- ▶ To resume playing the CD, press the left control knob (13) again.

Selecting a track

During audio CD playback:

- ▶ Tap on **Browse** to display a list of all the tracks on the CD.


The track that is currently being played is highlighted.

- ▶ Select the desired track.

During MP3 CD playback:

- ▶ Tap on **Browse** to display a list of all the tracks in the currently selected folder.



The track that is currently being played is highlighted.

- ▶ To select another folder (if available) tap on **Folder Up** or press the  button (11).



A list of all the folders on the CD is displayed.

- ▶ Select the desired folder.
- ▶ Select the desired track in the folder.

Skipping to the next or previous track

- ▶ Press the  or  button (16) once or several times.

Fast forwarding or fast reversing

Press and hold the  or  button (16) to fast forward or fast reverse within the current track.

**Note**

A beep will sound as soon as you have activated fast forwarding or fast reversing. If you do not hear a beep, the system sounds may be deactivated. For details on activating the system sounds, please refer to the "Introduction" chapter, "Adjusting settings" section.

Mix modeDuring audio CD playback:

If you activate mix mode, all the tracks on an audio CD will be played at random.

- ▶ Tap on **Mix** to activate or deactivate mix mode.

When mix mode is activated, the "Mix" symbol appears in the display.

During MP3 CD playback:

If an MP3 CD is inserted, all the tracks in the currently selected folder or all the tracks on the CD can be played at random.

- ▶ Tap on **Mix** once to mix the current folder. If you tap on **Mix** several times, you will activate the mix all mode.

The selected mode is shown in the display.

Repeat modeDuring audio CD playback:

If repeat mode is activated, the current track is played repeatedly until repeat mode is deactivated again.

- ▶ Tap on **Repeat** to activate or deactivate repeat mode.

When repeat mode is activated, "Repeat track" is shown in the display.

When playing an MP3 CD:

If an MP3 CD is inserted, you can repeatedly play the current track or all the tracks in the currently selected folder until you deactivate repeat mode.

- ▶ Tap on **Repeat** once to activate track repeat mode. If you tap on **Repeat**, you can activate folder repeat mode or deactivate repeat mode.

The currently activated mode ("Repeat track" or "Repeat folder") is shown in the display.

Ejecting a CD

- ▶ Press the ▲ button (5).

The CD is ejected from the CD slot (2).

**Note**

If the CD is not removed after it is ejected, the drive will draw it back into the slot (2) automatically after a few seconds.

USB port**General information**

You can find out about the position of the USB port in the vehicle documentation.

**Note**

The socket must always be kept clean and dry.

You can connect an MP3 player, USB storage device, SD card (via a USB adapter) or an iPod to the USB port.

If you connect the above devices to the USB port you can control them using the system's controls and menus.

**Notes**

- ▶ The system does not support all MP3 players, USB storage devices, SD cards, hard disk drives or models of iPod.
- ▶ The system is not compatible with the Apple iPad.

Important information

- ▶ The external devices connected to the USB port must comply with the USB mass storage class (MSC) specification.
- ▶ Devices connected via USB are supported according to the USB 2.0 specification. The maximum supported speed is 12 Mbit/s.
- ▶ Devices that do not have the FAT16 / FAT32 file system are not supported.
- ▶ Hard disk drives (HDD) are generally not supported.
- ▶ USB hubs are not supported.

The following file formats can be used:

- ▶ ISO9660 Level 1, Level 2, (Romeo, Joliet)
- ▶ MP3 and WMA files in formats other than those listed in this section may not be

played properly. Furthermore, their file names and folders may not be displayed.

The following limitations refer to data stored on external devices that are connected to the USB port:

- ▶ Maximum number of folders/playlists: 5000
- ▶ Maximum number of files/tracks: 15000
- ▶ Maximum number of files/tracks per folder/playlist: 6000
- ▶ The unit supports a folder hierarchy of at least 8 folders deep.
- ▶ WMA files with Digital Rights Management (DRM) from online music stores cannot be played.
- ▶ WMA files can only be played if they were created with Windows Media Player version 9. Support for newer versions cannot be guaranteed.
- ▶ Suitable playlist extensions: .m3u, .pls, .wpl.
- ▶ The system supports bit rates of up to 320 kbps at 48 kHz for MP3 and up to 192 kbps for WMA.

Playing audio files via USB

- ▶ Connect, for instance, an MP3 player / a USB storage device / a USB card reader to the USB port using a USB cable.
- ▶ Press the **MEDIA** button (14) once or several times to activate audio playback for the USB source.

**Note**

USB audio sources are controlled in the same way as an audio MP3/WMA CD.

Playing audio files from an iPod

- ▶ Connect the iPod to the USB port.
- ▶ Press the **MEDIA** button (14) once or several times to activate iPod mode.

**Note:**

An iPod connected via USB is operated in the same way as has been described for an audio MP3/WMA CD.

Bluetooth audio connection

Bluetooth-capable audio sources that support the Bluetooth music protocol (A2DP) can be connected to the system.

Important information

- ▶ The system only connects to Bluetooth devices that support A2DP (Advanced Audio Distribution Profile) Version 1.2.
- ▶ The Bluetooth device must support AVRCP (Audio Video Remote Control Profile) Version 1.0 or higher. If the device does not support AVRCP, it will only be possible to control the volume via the system.

**Note**

Please inform yourself about this in the operating instructions for your Bluetooth device before you connect the Bluetooth device to the system.

Bluetooth connection

Bluetooth is a wireless standard for wirelessly connecting devices, such as an MP3 player. To establish a Bluetooth connection with the system, the Bluetooth function of the Bluetooth device must be activated and the Bluetooth device must be set to “visible” (discoverable mode).

You will find further information on the settings necessary on the Bluetooth device in the Bluetooth device’s manual.

Using the BLUETOOTH SETUP menu, you can connect Bluetooth devices to the system (i.e. exchange PIN codes between the Bluetooth device and the telephone interface).

Proceed as follows to open the BLUETOOTH SETUP menu:

- ▶ Press the **SETUP** button (8).
- ▶ Tap on the **Bluetooth** menu item.

Connecting a Bluetooth deviceImportant information

- ▶ A maximum of five devices can be paired with the system.
- ▶ Only one paired device can be connected to the system at any one time.
- ▶ Usually the pairing procedure can only be performed once unless the device was deleted from the list of paired devices.

Perform the following procedure to pair a Bluetooth device with the system.

- ▶ In the BLUETOOTH SETUP menu, set **Bluetooth** to “On”.
- ▶ Tap on **Pair New Device**.

You will be asked to enter the PIN code “1234” on the Bluetooth device.

- ▶ Activate the Bluetooth function on the Bluetooth device (if it is not already activated).
- ▶ Activate "discovery mode" (please refer to the manual for the Bluetooth device).

The system's Bluetooth name is "DAF TNR".

- ▶ Follow the instructions on the Bluetooth device to establish the connection. If necessary, use the PIN code "1234" for this.

A message is displayed if the pairing operation was successful.




Notes

- ▶ If other Bluetooth devices were connected to the system prior to this, the device that was connected beforehand will be disconnected.
- ▶ If the Bluetooth connection fails, perform the procedure for establishing a connection once more or refer to the Bluetooth device's manual.

Connecting to another paired device

- ▶ In the BLUETOOTH SETUP menu, tap on **Select Paired Device.**

A list of all the Bluetooth devices currently paired with the system is displayed.

The Bluetooth device currently connected to the system is indicated by the  symbol.

- ▶ Select the desired Bluetooth device.

The selected Bluetooth device is connected to the system.

- ▶ Activate the Bluetooth function on the Bluetooth device if it is not already activated (refer to the operating instructions of the Bluetooth device). A confirmation appears if the Bluetooth connection was established successfully.



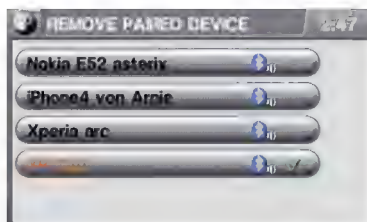
Notes

- ▶ If another Bluetooth device was connected to the system prior to this, it will now be disconnected.
- ▶ Only one Bluetooth device can be connected to the system at a time, regardless of whether it is an audio streaming device, a mobile phone or a multi-function device (e.g. a mobile phone with an integrated MP3 player).
- ▶ If the Bluetooth connection fails, carry out the pairing procedure again or refer to the Bluetooth device's operating instructions.

Deleting a paired device

- ▶ In the BLUETOOTH SETUP menu, tap on **Delete Paired Device.**

A list of all the Bluetooth devices currently paired with the system is displayed.



- ▶ Select the desired Bluetooth device.
 - ▶ Tap on **Yes** to confirm the deletion.
- The device is removed from the list of paired devices.

Operation

Requirements


The following requirements must be met in order to use the system's Bluetooth music mode:

- ▶ The system's Bluetooth function must be activated.
- ▶ The Bluetooth function of the external Bluetooth audio source must be activated (please refer to the device's manual).
- ▶ Depending on the external Bluetooth audio source, it may be necessary to set the device to "visible" (please refer to the device's manual).
- ▶ The external Bluetooth audio source must be paired with the system and connected to it.

Activating Bluetooth music mode

- ▶ Press the **MEDIA** button (14) once or several times to activate Bluetooth music mode.

The external audio source can now be operated via the system.



- ▶ Tap on .

Audio is played.

To play the next audio track,

- ▶ press the  button (16).

To pause or stop audio playback,

- ▶ tap the  button. To restart playback, tap  again.



Note

Activation of Bluetooth music mode and controlling playback may be different depending on the Bluetooth device.

AUX connection

General information

You can connect external audio sources to the AUX socket. Please refer to the vehicle's documentation to find the location of the AUX connection.



Notes

- ▶ Not all vehicles have an AUX connection.
- ▶ The AUX socket must always be kept clean and dry.
- ▶ You can, for instance, connect a portable CD player to the AUX input using a 3.5 mm plug.

Usage

- ▶ Press the **MEDIA** button (14) once or several times to activate AUX mode.

The audio signal of the connected audio source is now outputted on the system's loudspeakers.

The volume can be adjusted using the control knob (10).

Adjusting the input volume

Details on this are available in the “Introduction” chapter, in the “Volume settings” section.

Navigation



Road safety

The unit has been designed for use in trucks.

Information about height restrictions or maximum permitted road load, which is required for navigating trucks, is taken into consideration in the route calculation insofar as this information is stored in the navigation data.

- ▶ Please always pay attention yourself to any restrictions on the roads and in the road traffic during your journey, also when you are following the driving recommendations provided by the unit. The information stored in the navigation data may be incorrect, incomplete or outdated.
- ▶ To update the navigation data, only use the latest navigation SD cards that contain the information relevant to trucks.
- ▶ Make sure your vehicle's complete set of attributes and the current load are stored at all times in the unit in order to avoid the calculation of unsuitable or dangerous routes.

General information

The system guides you reliably to your destination, even if you are not familiar with the area. The system receives traffic reports in the current reception area via RDS-TMC. In order to provide dynamic navigation, the system uses traffic information available for the region when calculating a route.



Road safety

Using the navigation system does not excuse the driver from driving and acting in a responsible and correct manner. You must always comply with the applicable traffic regulations. If the navigation instructions are not in keeping with the traffic regulations then the traffic regulations must always take priority.



Note

RDS-TMC is not available in all countries.

Navigation system functions

The orientation and motion of the vehicle is detected by sensors, and the distance traveled is determined using the vehicle's mileage counter. A sensor detects when the vehicle turns off a road, and the vehicle's orientation is identified using GPS satellites (Global Positioning System).

By comparing the sensor signals with the digital maps on the SD card, the system can determine the position with an accuracy of approx. 10 m. The system also works when GPS reception is poor, though the position

computations in this case are less precise. After you enter the destination address or a location (e.g. the next fuel station, hotel, etc.), the system calculates the route from your current location to the selected destination. You are then navigated by spoken announcements and a directional arrow shown on the map.

TMC traffic information system and dynamic navigation

The TMC traffic information system receives the latest traffic reports via the TMC radio stations. The TMC traffic information is displayed in the map view as symbols or in the TRAFFIC INFO menu as a text report.

When the dynamic navigation system is activated, the traffic information is used to calculate the route. With this method, the system plans the route in such a way that traffic problems are avoided in accordance with previously set criteria.

If a traffic problem arises, a message is displayed informing you that the route should be altered.

In order to use TMC traffic information, the system must be able to receive the TMC stations in the respective region.

Dynamic navigation only works if the TMC traffic information system receives traffic reports.

Map data

The map data is stored on an SD card that is supplied with the system.

**Note:**

Please contact DAF Service for maps of other regions.

Vehicle attributes

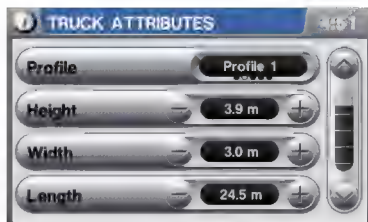
**Road safety**

Make sure before using the navigation system that the current vehicle attributes have been entered/set in the system.

The system takes the vehicle attributes into consideration when calculating the route so as to avoid unsuitable or dangerous route sections.

You can store the attributes for different vehicle configurations (e.g. with and without a trailer or with and without a hazardous load) in up to 4 different profiles.

- ▶ Press the **SETUP** button (8).
- ▶ Tap on **Truck Attributes**.



- ▶ Tap on **Profile** (if necessary, several times) to select or edit a profile.

- ▶ Set the following vehicle attributes:

- ▶ Height
- ▶ Width
- ▶ Length
- ▶ Actual weight
- ▶ Gross weight
- ▶ Axle load
- ▶ No. of axles
- ▶ Hazardous load
- ▶ Trailer (yes, no)

**Road safety**

The current navigation data does not support navigation that is compliant with hazardous loads.

The settings you have set for hazardous loads will not be taken into account when the route is calculated. Make sure you always observe the traffic regulations that are in force concerning this.

It is expected that navigation data that takes into account hazardous loads in the route calculation will be available from 2014 or 2015.

**Note**

You will also find the vehicle attributes in the Navigation menu, in the **Options** menu item.

Map options

To open the MAP OPTIONS menu,

- ▶ press the **MAP** button (4) and then tap on **Menu**.

The following options are available.



Store current position

The address / GPS coordinates of the current position can be stored in the address book under any name you wish.

- Select the menu item to open a menu that contains a keyboard for entering the name.
- Enter a name for the current position.



Note

To open a keyboard for entering numbers and special characters, tap on **More**. To delete characters, tap on **Delete**.

- Tap on **OK** to store the address / GPS coordinates.

The position name is added to the address book.

Show position information

Select this option to display the address / GPS coordinates of the current position.

To store the displayed address / GPS coordinates in the address book, tap on **Store**.

Show destination information

Select this option to display the address / GPS coordinates of the next waypoint (if one exists) on the route and/or the address / GPS coordinates of the destination.

If the address / GPS coordinates of the next waypoint is/are displayed, tap on **Dest.** to display the address / GPS coordinates of the destination.

If the address / GPS coordinates of the destination is/are displayed, tap on **Waypt.** to display the address / GPS coordinates of the next waypoint (if one exists). To store the displayed address / GPS coordinates in the address book, tap on **Save**.

NAV button and NAVIGATION menu

- Press the **NAV** button (6) to open the NAVIGATION menu.

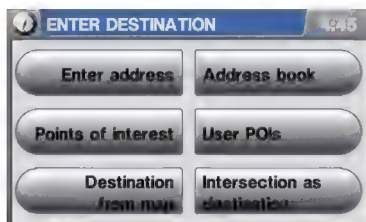


The NAVIGATION menu provides access to all the system functions for entering a destination and for navigation.

Entering a destination

- Tap on **Destination**.

The following screen is displayed.



Note

If the navigation function is active, you can enter a waypoint (a stopover) on the route to the current destination. You can also replace the set destination details with new details.

Entering an address

- ▶ Tap on **Enter Address**.

The ENTER ADDRESS menu is displayed.

- ▶ Enter the desired city/town name by tapping on the letter keys.



Note

The system automatically blocks all letters that cannot occur in the city name. If you need to enter a letter or special character, tap on **More** once or several times until the desired letter or special character is shown.

Select one of the following input sequences:

- 1 Country name
- 2 City/town name / postcode
- 3 Street/road name
- 4 House number

or

- 1 Country name
- 2 Street/road name
- 3 House number
- 4 City/town name / postcode

- ▶ Tap on **Country**.
- ▶ Enter the desired country name.
- ▶ Tap on **City**.
- ▶ Enter the name or the postcode of the destination town.
- ▶ Tap on **Street**.
- ▶ Enter the name of the destination address.



Note

If you do not enter any characters for the street name, you can skip the address input. Instead, tap on **Centre**. The destination is then set as the town center.

- ▶ Enter the desired house number.



Note

If you enter a house number that does not exist, the system offers the following options:

- ▶ **No number**: The house number is ignored. The destination is set to the middle of the destination street.
- ▶ **Get number from list**: A list of available house numbers is displayed. Select an option.



Note

If you select the **No number** option, the CONFIRM DESTINATION menu appears. If you select the **Get number from list** option, a list of available house numbers and/or house number ranges is displayed. Select the list item with the desired house number or house number range.

The CONFIRM DESTINATION menu displays a map view of the area surrounding the address you have just entered. The new destination is indicated by a checkered flag.

Adding a waypoint

- ▶ Press the **NAV** button (6) and tap on **Destination** or **Previous Destinations**.
- ▶ Tap on **Add waypoint**.
- ▶ Enter a waypoint or select one.

Home address

You can use this option to store your own address and/or select the already stored home address as a new destination.

Entering and selecting the home address

- ▶ Press the **NAV** button (6) and then tap on **Home**.

The current home address or GPS coordinates are displayed.

The following menu options are available:

- ▶ **Position:** Use this option to delete the previous home address (if one exists) and save the current position as the new home address. The address details or GPS coordinates of the current position are displayed.
- ▶ **Change:** Use this option to enter the address directly. The previous home address (if one exists) is deleted.
- ▶ **Start:** Use this option to enter the displayed home address or GPS coordinates as the new destination and start navigation.

Route

- ▶ Press the **NAV** button (6) and then tap on **Route**.

The following route list is displayed.



The route list displays all the roads on the calculated route, starting with your current position.

The following information can be displayed in each list:

- ▶ Name of the road, motorway or motor junction
- ▶ Directional arrow or motorway symbol

**Note**

The red triangle in a directional arrow or motorway symbol indicates that there is a traffic holdup on the selected road or motorway.

- ▶ Distance to the next road on the route
- ▶ Estimated time until the next road on the route is reached
- ▶ Estimated arrival time when the next road on the route is reached

Depending on the time format that has been activated for the map view, the estimated remaining journey time or the estimated arrival time will be displayed.

**Note**

If no home address was set up beforehand, the address field in the menu will remain empty.

Changing the time display mode

- ▶ Press the **MAP** button (4).

The following screen is displayed.



- ▶ Tap on the time information in the display beneath the directional arrow.

Previous destinations

Use this option to display a list of destinations that you have used before for navigation. You can select an item from this list and set it as your new destination.

Selecting a previous destination

- ▶ Press the **NAV** button (6).
- ▶ Tap on **Previous Destinations**.

The list of previous navigation destinations is displayed.

**Note**

Up to 50 previous destinations are stored automatically. When the system attempts to save more than 50 destinations, the oldest is automatically deleted from the list and the newest is added.

- ▶ Select the previous destination.
- The following menu options are available:
- ▶ **Save:** Tap on this option to store the displayed destination data in the address book.
 - ▶ **Del. all:** Tap on this option to delete the entire list of previous destinations.
 - ▶ **Delete:** Tap on this option to delete the displayed destination from the list of

previous destinations.

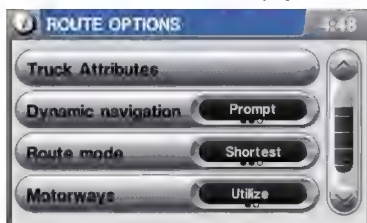
- ▶ **OK:** Use this option to enter the displayed address or GPS coordinates as the new destination and start navigation to this destination.

Options

Use these options to modify the settings for the route calculation/recalculation and the navigation function.

- ▶ Press the **NAV** button (6).
- ▶ Tap on **Options**.

The ROUTE OPTIONS menu is displayed.



The following menu options are available:

- ▶ **Dynamic navigation:** You can set all the options.
 - ▶ **Off:** Use this option to deactivate route calculation/recalculation on the basis of TMC.
 - ▶ **Automatic:** Use this option to activate route calculation/recalculation on the basis of TMC.
 - ▶ **Prompt:** Use this option to allow or disallow route calculation/recalculation only after the system prompts you.

- ▶ **Route mode:** Select one of the options – Fastest, Eco or Shortest route – for navigation.
- ▶ **Motorways:** Select whether motorways should be used for navigation or avoided.
- ▶ **Tolls & Ferries:** Select whether toll roads and ferries should be used in the calculation of the route to the destination or whether they should be avoided.

Stopping route guidance

Use this option to cancel the current route guidance.

If there is an additional waypoint present for the current navigation session, you may receive the following query:

- ▶ Cancel navigation to the waypoint and to the ultimate destination?
- ▶ Cancel only navigation to the waypoint?



Note

If you only want to cancel navigation to the waypoint, the navigation system will recalculate the route automatically in order to guide you to your ultimate destination.

TRAFFIC INFO menu

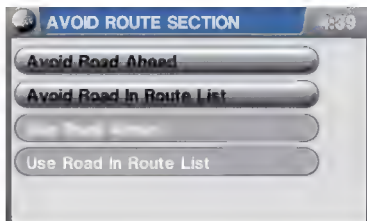
- ▶ Press the **TRAF** button (7) to open the TRAFFIC INFO menu.

When the navigation system is activated, the TRAFFIC INFO menu displays all the traffic incidents on the current route and/or in the surrounding area.

Block

Use this menu to exclude selected roads in a route section from the navigation.

- In the TRAFFIC INFO menu, tap on **Block**. The AVOID ROUTE SECTION menu is displayed.



The following menu options are available:

- **Avoid Road Ahead:** Using this option, you can exclude a section of the route by specifying the length of section to be omitted starting from the current position of the vehicle.



- To omit roads, tap the / buttons to adjust the "Avoid Dist." settings.
- Tap on **Recalculate Route**.

The route is recalculated.

- **Avoid Road In Route List:** Use this option to exclude a single road or several

consecutive roads from the current route.

- To exclude a road, select the desired road. To exclude several consecutive roads, select the first and last road of the route section you want to exclude.
- Tap on **Recalculate Route**.

The route is recalculated.



Note

You can only select a single road or a section of the route at a time for exclusion from the route list.

- **Use Road Ahead:** Use this option to undo the exclusion of a section of route.
- **Use Road In Route List:** Use this option to undo the exclusion of the roads from the route list.

TA

Use this option to activate or deactivate priority for traffic announcements.

Route

Use this option to display a list of all traffic incidents on the current route. To obtain more detailed information about a specific traffic incident, select an item from the list.

All

Use this option to display all the traffic incidents on the current route. In addition, you can also display all the traffic incidents in the area around the current vehicle position.

SETUP button and NAVIGATION menu

- ▶ Press the **SETUP** button (8) to open the SETUP menu.
- ▶ Tap on **Navigation**.

The NAVIGATION SETUP menu is displayed.



Note

Alternatively, you can also use the following method to open the "Map Setup" menu.

- ▶ Press the **MAP** button (4).
- ▶ Tap on **Menu**.
- ▶ Select **Map Setup**.

The NAVIGATION SETUP menu provides various settings for customizing the navigation system.

The following settings/options are available:

- ▶ **Map Setup:** The following settings/options are available in **Map Setup**:
 - ▶ **Map view:** Use this option to switch between the two dimensional, flat map view (2D) and the three dimensional, perspective view (3D).



Note:

In the 2D map view you can switch between the "North" and "Head" map orientation modes. Only the "Head" orientation mode is available in 3D mode.

- ▶ **Map orientation:** Use this option in 2D map view to switch between "North" mode (map aligned with

north) and "Head" mode (map aligned with your heading).

- ▶ **Auto Zoom:** If you set this option, the map scale is automatically adjusted by the navigation system (zoomed in and out).
- ▶ **Show POIs In Map:** If you set this option, points of interest, such as fuel stations, car parks or restaurants, are displayed on the map with the relevant symbol.
- ▶ **Map Data Information:** Use this option to display the name and version of the map data stored on the SD card.
- ▶ **Voice Guidance:** If you set this option, spoken announcements are made during navigation.
- ▶ **Voice Vol.:** If voice guidance is activated, this setting changes the volume of the spoken announcements. An audio example is played after each adjustment.
- ▶ **Position Information:** Use this option to display the address / GPS coordinates of the current position. To store the displayed address / GPS coordinates in the address book, tap on "Store".
- ▶ **Time Display:** Use this option to switch between displaying the estimated arrival time and the estimated remaining journey time. Details on this are available in the "Information in the map view" chapter.
- ▶ **Distance Units:** With this option you can switch between displaying distances in miles and kilometers.
- ▶ **POI Warning:** This option is available if user-defined points of interest with the

corresponding warning notices have been downloaded onto the system. If this option is activated, a warning notice is displayed when the vehicle approaches a location that has been defined by the user.

**Note**

Further details on this are available in the “User-defined points of interest” chapter.

- ▶ **POI Warning Distance:** This option is only available if user-defined points of interest and the corresponding warning notices have been downloaded onto the system. You can use this option to define the threshold value at which the system issues a warning before you reach a particular user-defined location. To set the threshold value, proceed as follows:

- ▶ Tap on **POI Warning Distance:**

A list of distances for the point of interest warning is displayed.

- ▶ Select the desired point of interest warning.
- **Download my POIs now:** This option is only available if a USB storage device on which user-defined points of interest are stored is connected to the system.

**Note**

Details on this are available in the “User-defined points of interest” chapter and the “Downloading the

user-defined points of interest” chapter.

- ▶ **Remove User POIs From System:** This option is only available if user-defined points of interest have been downloaded onto the system.
- ▶ **Demo Mode:** If demo mode is activated, you can simulate route guidance while the vehicle is stationary. You can use this function to familiarize yourself with the navigation system.
- ▶ **Set Start Location For Demo:** Enter an address as the starting point for the simulated route guidance.



Information in the map view



- To display the map for your current position press the **MAP** button (4).



The following information is displayed when route guidance is activated:

- (A) Selected audio source
- (B) Details about what is currently playing (e.g. the current frequency in radio mode).
- (C) Status of the current road for your vehicle.

Symbol	Status
	Truck-specific information about the road is available; the road is suitable for the currently set vehicle attributes.
	No truck-specific information about the road is available!

Symbol	Status
	Truck-specific information about the road is available; the road is <u>not</u> suitable for the currently set vehicle attributes!
	No truck-specific information about the road is available!

- (D) Name of the road after the next driving maneuver.
- (E) Current time

- (F) A compass indicates north.

**Note**

In the two-dimensional map view, tap on the compass to switch between the “North” orientation and “Head” orientation map view modes.

- (G) Route

**Notes**

- ▶ The ultimate destination is indicated by a black checkered flag.
- ▶ A waypoint is indicated by a red checkered flag.
- ▶ Traffic incidents, such as traffic jams, are indicated by their corresponding symbols and by a route section marked in black on the map.
- ▶ Traffic incidents are only displayed on the map when dynamic navigation is activated.

- (H) Points of interest, such as fuel stations, car parks and restaurants, are indicated by the corresponding symbols.

**Note**

The option to display points of interest can be activated and deactivated.

- (J) The vehicle's current position.

- (K) The currently selected map scale.

**Notes**

- ▶ To adjust the scale, turn the control knob (10).
- ▶ If auto zoom mode is activated, the map scale is automatically adjusted by the navigation system (zoomed in / out).

- (L) The road name for the current position.

- (M) Button to open the map options menu.

- (N) Estimated arrival time or remaining journey time as well as the remaining distance to the destination.

**Notes**

- ▶ Tap on the time display to switch between the arrival time and the remaining journey time.
- ▶ The time calculations are based on average speeds specific to automobiles or specific to trucks (if a profile is selected in the TRUCK ATTRIBUTES menu).

- (O) The directional arrow and the distance to the next maneuver.

- (P) Button for voice guidance.

**Note**

Tap on **Voice** to repeat the last spoken announcement.
Touch **Voice** for a few seconds to activate or deactivate voice guidance.

User-defined points of interest

In addition to the points of interest stored on the SD card, you can also define your own points of interest. You can download the points of interest you created onto the system.

You can create the following:

- Destination locations
- Points of interest warnings

Your own points of interest:

These are points of interest that you can use as destinations for the navigation system. You should define the GPS coordinates (longitude and latitude) for each location and enter a descriptive name. After you have downloaded the points of interest data onto the system, select a name (e.g. "David's Apartment") from the menu of user-defined points of interest that can be used as a destination for the navigation system.

To create points of interest, proceed as follows:



Note

You must create a separate ASCII-coded text file for each point of interest type in a simple text editor application.

- Create a text file that has the file extension .asc and give it any name you like (e.g. "SamsLocations.asc").
- Enter the following data for the destination into the text file:
 - Longitude coordinates
 - Latitude coordinates

- Name of the location
(e.g. 9.9800000,52.0150000, "David's Apartment")



Notes

- The data must be entered on one line.
 - You can obtain the necessary GPS coordinates from, for example, a topographic map.
 - The GPS coordinates must be entered in degrees using the decimal system.
 - Coordinates with a western longitude and a southern latitude must be entered with a leading minus "-".
- Enter longitude and latitude coordinates into the text file separated by a comma.
 - Give the location any name you wish.



Note

The name must be placed inside inverted commas and separated from the GPS coordinates by a comma.

- Enter each additional point of interest destination on a new line in the text file.
- Save the text file (e.g. on the hard drive of your PC or notebook).

Points of interest warnings

You can create warning notices that should be issued before you reach a certain location (e.g. sharp bends on the road). When the vehicle reaches the location defined by the GPS

coordinates, the corresponding warning notice is displayed (e.g. "Sharp bends").

To create the points of interest warning, proceed as follows:

- ▶ Create a separate text file that has the file extension .asc and give it any name you like (e.g. "PoorRoads.asc").
- ▶ Enter the following data for the destination into the text file:
 - Longitude coordinates
 - Latitude coordinates
 - Name of the location
(e.g. 7.6800000,49.0120000,"Poor-Road")



Notes

- ▶ The data must be entered on one line.
- ▶ You can obtain the necessary GPS coordinates from, for example, a topographic map.
- ▶ The GPS coordinates must be entered in degrees using the decimal system.
- ▶ Coordinates with a western longitude and a southern latitude must be entered with a leading minus sign "-".
- ▶ Enter longitude and latitude coordinates into the text file separated by a comma.
- ▶ Give the location any name you wish.



Note

The name must be placed inside inverted commas and separated from the GPS coordinates by a comma.

- ▶ Enter each additional point of interest destination on a new line in the text file.
- ▶ Save the text file (e.g. on the hard drive of your PC or notebook).

Storing text files on a USB storage device

- ▶ In the root directory of a USB storage device, create a folder with the name "myPOIs" (e.g. "L:\myPOIs", where "L:\\" is the root directory of the USB storage device).
- ▶ Store the text file containing the destination locations in the "myPOIs" folder.
- ▶ Create a subfolder called "myPOIWarnings" inside the "myPOIs" folder.
- ▶ Store the text file containing the point of interest warnings in this subfolder. (e.g. „L:\myPOIs\myPOIWarnings\PointOfInterestWarnings.asc").

Downloading the user-defined points of interest

- ▶ Plug the USB storage device containing your point of interest data into the system's USB port.
- ▶ To start the download, press the **SETUP** button (8).
- ▶ Tap on **Navigation**.
- ▶ Tap on **Download my POIs now**.

The points of interest data are downloaded onto the system.

Maps

The map data required for navigation is stored on an SD card that is supplied with the system.

Navigation SD card

The system's SD card reader can only read SD cards that are supplied specifically for use with vehicle navigation systems. The SD card reader cannot read any other SD cards.

The map data on the SD card is sometimes not completely up to date – some roads are not included or names and roads differ from those that were in use at the time the map was produced. You can order new navigation SD cards to obtain the latest map data.



Hazard for the device

Do not use any SD card that is cracked or deformed or has been repaired with adhesive tape. Damaged SD cards can damage the system.

- ▶ Handle the SD card with care. In particular, make sure you do not touch or dirty the contacts.
- ▶ Do not use any conventional cleaners, benzene, thinner or antistatic sprays to clean the SD card or its contacts.
- ▶ Do not subject the SD card to mechanical forces, such as bending or compression. Do not use any warped or broken SD cards.
- ▶ Do not stick any adhesive labels on the SD card to ensure the SD card can be inserted in and removed from the card slot without problems.

- ▶ Do not expose the SD card to direct sunlight, high temperatures or moisture.
- ▶ When the SD card is outside the device, always keep it in a protective case to protect it against dirt, moisture and mechanical forces.



Note

You can obtain map updates from your vehicle dealer.

Changing a navigation SD card



Hazard for the device

Do not use force to open the cover of the SD card slot.



Note

If you remove the SD card while route guidance is active, the route guidance session will be canceled.

- ▶ Pull the right hand side of the cover of the SD card slot ⑨ out of the front of the unit and swing it to the left.
 - ▶ Press down on the inserted SD card to unlatch it. Carefully pull the SD card out of the slot.
 - ▶ Carefully slide the new SD card with its labeled side facing up and with the cut-out sections on the right into the SD card slot ⑨.
 - ▶ Close the cover of the SD card slot.
- You have successfully changed the SD card.

Steering wheel remote control

You can operate the radio/navigation unit using the buttons on the steering wheel.

Functions of the steering wheel remote control

 button

Switch between radio, CD/MP3, CD changer and external audio/video source.

 button

Decrease the volume.

 button

Increase the volume.

 button

- ▶ Radio: Automatic station seek tuning.
- ▶ CD/MP3 and CD changer: Select the previous track or restart the current track (short press); fast reverse searching (long press).

 button

- ▶ Radio: Automatic station seek tuning.
- ▶ CD/MP3 and CD changer: Select the next track (short press) - fast forward searching (long press).

Technical data

Operating voltage: 12 V (10.8 V – 15.6 V)

Current consumption

During operation: 1.3 A

Max.: approx. 8.0 A

Standby: 1 mA

Fuse

Current rating: 10 A

Outputs

Rated power output: 4 x 20 W / ≥ 4 ohms

Output level (operating voltage = 14.4 V):
 ≥ 8.0 V / THD = 2.5%

Operating temperature:

-20 °C to +70 °C

Storing temperature: -40 °C to +85 °C

Frequency response (± 3 dB)

CD/MP3: 20 Hz to 20 kHz

Tuner: 35 Hz to 16 kHz

Frequency ranges

FM (VHF): 87.5 - 108 MHz

AM: 531 - 1602 kHz

Weight: approx. 1.8 kg

Dimensions WxHxD (in mm)

187.2 x 118.6 x 216.9

Standards: CE, E1, RoHS, WEEE

Subject to changes.

